



Neelam Kumari Bhaskar

Senior Staff Physician, Ophthalmology and Visual Sciences,
KTPH Assistant Professor, Duke-NUS Graduate Medical
School & Singapore Eye Research Institute

Research Interests:

- Retinal Diseases and Degenerations
- Diabetic Retinopathy
- Myopic Macular Degeneration
- Age-related Macular Degeneration

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Biography

I obtained my undergraduate degree in Medicine and post-graduate degree in Ophthalmology from Delhi University, India. I was admitted as Fellow Royal College of Physicians and Surgeons of Glasgow in the year 2003 and was conferred PhD degree from the National University of Ireland in the year 2008 based on my thesis entitled "Macular carotenoids in healthy and diseased retinae". I have 20% of the protected time for carrying out research related activities from RISE 2021 (Researcher-Investigator-Scientist Enabler Grant Scheme). Currently, I have published sixty articles in the peer reviewed scientific journals and holding few Science - Translational and Applied Research-I grants and Enabling grants. I have successfully co-supervised two students for master's degree, one from University of Manchester, UK and another from Queensland University of Technology, Australia. In addition, I am also involved in teaching medical students during their surgical rotations from NUS and LKC medicine.

Selected Publications

- Neelam K, Cheung G, Lai TTY, Ohno-Matsui K, Wong TY. Choroidal neovascularization in myopia. *Progress in Retina and Eye Research*. 2012; 31(5):495-525.
- Neelam K, Ho H, Yip CC, Wong WY, Au Eong KG. The spatial profile of macular pigment in subjects from a Singapore Chinese population. *Invest Ophthalmol Vis Sci*. 2014; 15(55):2376-83.
- Neelam K, Goendi C, Lun K, Yip CC, Au Eong KG. Putative protective role of lutein and zeaxanthin in DR. *Br J Ophthalmol*. 2017

- Cheung CY, Sabanayagam C, Law AK, Neelam K, Ting DS, Tan G, Mitchell P, Cheng CY, Wong TY. Retinal vascular geometry and 6-year incidence and progression of diabetic retinopathy. *Diabetologia*. 2017; 60(9):1770-1781.
- Neelam K, Cher J, Chua E, Hamzah H, Wong TY, Cheung CY. Association of Serum Lutein and Zeaxanthin with Quantitative measures of Retinal Vascular Parameters. *PLoS*. 2018.
- Tan GS, Gan A, Sabanayagam C, Tham YC, Neelam K, Mitchell P, Wang JJ, Lamoureux EL, Cheng CY, Wong TY. Ethnic Differences in the Prevalence and Risk Factors of Diabetic Retinopathy: The Singapore Epidemiology of Eye Diseases Study. *Ophthalmology*. 2018; 125(4):529-536.
- Neelam K, Bhargava M, Nguyen QD, Gan A, Tan G, Cheung D, Tan N, Wong C, Wang JJ, Mitchell P, Lamoureux EL, Cheng CY, Wong TY, Sabanayagam C. Six-year Incidence and Progression of Diabetic retinopathy In Indian Adults: The Singapore Indian Eye Study. *Br J Ophthalmol*. 2019;103(12):1732-1739.
- Neelam K, Dey S, Sim R, Lee J, Au Eong KG. Fructus lycii: A natural dietary supplement for amelioration of retinal diseases. *Nutrients*. 2021; 13(1):246. doi: 10.3390/nu1301024.

Notable Research Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
Science-Translational & Applied Research Grant I for “Omics study in myopic macular degeneration”	2018
Science-Translational & Applied Research Grant I for “Nutrigenomics in pathological myopia” 2019	2019
Researcher Investigator Scientist Enabler Grant (RISE)	2021